

**ABSTRACT**

A method for enhanced power saving on DCF based wireless networks is disclosed. The method divides a beacon transmitting section in an Announcement Traffic Indication Message (hereinafter, referred to as "ATIM") window period defined by IEEE standard 802.11 according to a data packet to be sent or not and allows a terminal that has received the beacon to go to a doze state immediately according to beacon reception timing, thereby preventing unnecessary power consumption.